Translation

PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference CRL-PCT-040	FOR FURTHER	ACTION Sec Notific	cation of Transmittal of International Examination Report (Form PCT/IPEA/416)			
International application No. PCT/JP2003/009585		date (day/month/year) 03 (29.07.2003)	Priority date (day/month/year)			
International Patent Classification (IPC) H04B 7/08, H04B 7/10, H04	or national classification					
Applicant NATIONAL INSTITUTE	OF INFORMATIO	N AND COMMUNI	CATIONS TECHNOLOGY			
1.° This international preliminary ex and is transmitted to the applican	amination report has bee t according to Article 36	n prepared by this Interna	tional Preliminary Examining Authority			
This REPORT consists of a total	of4 sheet	ts, including this cover sh	eet.			
This report is also accomp	anied by ANNEXES, i.e	., sheets of the description	n, claims and/or drawings which have been ons made before this Authority (see Rule			
These annexes consist of a	total of4	sheets.				
3. This report contains indications re	3. This report contains indications relating to the following items:					
I Basis of the repor	t		•			
II Priority						
III Non-establishmen	III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
IV Lack of unity of in						
V Reasoned statement citations and explain	nt under Article 35(2) wi mations supporting such	th regard to novelty, investatement	ntive step or industrial applicability;			
VI Certain documents						
VII Certain defects in	the international applicat	ion				
VIII Certain observations on the international application						
Date of submission of the demand 22 December 2003 (22.12.2003)		Date of completion of th	nis report			
		15 September 2004 (15.09.2004)				
Name and mailing address of the IPEA/JP		Authorized officer				
Facsimile No.		Telephone No.				

Form PCT/IPEA/409 (cover sheet) (July 1998)

International application No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/JP2003/009585

I.	I. Basis of the report								
1.	1. With regard to the elements of the international application:*								
		the international application as originally filed							
	\boxtimes	the desc	cription:						
		pages	1-9	, as originally filed					
		pages		, filed with the demand					
		pages	, filed with the letter of						
	\boxtimes	the clai	ms:						
		pages		, as originally filed					
		pages	, as amended (together with any state	ement under Article 19					
		pages		, filed with the demand					
		pages	1-4, 6-9 , filed with the letter of 28 April 2	2004 (28.04.2004)					
	\boxtimes	the drav	-						
		pages		, as originally filed					
		pages		, filed with the demand					
		pages	, filed with the letter of						
	t	he seque	ence listing part of the description:						
		pages		, as originally filed					
		pages		, filed with the demand					
		pages	, filed with the letter of						
2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in with the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)).									
		or 55.3							
3.	With	ith regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international diminary examination was carried out on the basis of the sequence listing: contained in the international application in written form.							
	\sqcap		ogether with the international application in computer readable form.						
			ned subsequently to this Authority in written form.						
		furnish	ned subsequently to this Authority in computer readable form.						
			tatement that the subsequently furnished written sequence listing does not go beyond ational application as filed has been furnished.	the disclosure in the					
			atement that the information recorded in computer readable form is identical to the writte urnished.	en sequence listing has					
4.		The an	nendments have resulted in the cancellation of:						
{			the description, pages						
1			the claims, Nos.						
			the drawings, sheets/fig						
5.		This rep	port has been established as if (some of) the amendments had not been made, since they have the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	e been considered to go					
*	in th	icement . is report	sheets which have been furnished to the receiving Office in response to an invitation under An t as "criginally filed" and are not annexed to this report since they do not contain an	rticle 14 are referred to nendments (Rule 70.16					
** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.									

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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(tle 35(2) with regard to novelty, inventive step or industrial applicability; orting such statement	
1. Statement			
Novelty (N)		Claims	YES
		Claims	NO NO
Inventive step (IS)		Claims	YES
		Claims	МО
Industrial applicability (IA)		Claims	YES
		Claims	ио
2. Citations and e	explanations		
Document 1:	JP, 2003-1795	516, A (Communication Research Laboratory)	
		(06.27.03), Full text, Fig. 5	
	& US, 2003/0 & CA, 24088		
Document 2:		, A (The Boeing Co.) 8 (04.10.98), Full text, all drawings	
	• '	8 (04.10.98), Full text, all drawings 90, A1 & CA, 2204298, A	
	& KR, 97077	824, A	
	& US, 620522	24, A & CN, 1169540, A	
Document 3:	JP, 8-213824	, A (Nippon Telegraph and Telephone Corporation)	
		996 (08.20.96)	
	Paragraphs 00	011 and 0014, Fig. 1	
Document 4:	JP, 11-18694	7, A (Uniden Corp.)	
·	July 9, 1999 ((07.09.99) 020-0026, Figs. 1-3	
	Paragraphs 00	J20-0020, Figs. 1-5	
Document 5:	JP, 2000-115	044, A (K.K. Kyocera DDI Mirai Tsushin Kenkyusho)	
	April 21, 200	0 (04.21.00) 023-0025, Fig. 1	
	i aragrapus o	525-0025, 1 ig. 1	
Claims 1 and	6		
Docur	nent 1 disclose	s a milliwave band radio communication method of a self-het	erodyne
type, wherein	phrase control	and amplifier weighting are performed on a detected output t	
detected at a p	plurality of reco	eption circuits. n using a milliwave, wherein a reception circuit combining a	small-size
		small plane reception circuit is used, is commonly performed	
no particular	difficulty can b	be found in having milliwave receivers (41-43) disclosed in do	ocument 1
		on circuit combining a small-size plane print antenna and very e the inventions relating to claims 1 and 6.	⁷ small plane
Tecephon end	are to comigate	o mo myonnons foramis to oranis I and o.	
1			

International application No.

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of Box V:

Claims 2 and 7

Document 2 discloses arranging array elements at irregular intervals to one another; therefore, no special point can be found in adopting this constitution to a milliwave band radio communication method disclosed in document 1 to configure the inventions relating to claims 2 and 7.

Claims 3 and 8

Document 3 discloses that intervals of antennas can be changed manually or automatically: therefore, no particular point can be found in adopting this constitution to a milliwave band radio communication method disclosed in document 1 to configure the inventions relating to claims 3 and 8.

Claims 4 and 9

Document 4 discloses three-dimensionally arranging antennas; therefore, no particular point can be found in adopting this constitution to a milliwave band radio communication method disclosed in cited document 1 to configure the inventions relating to claims 4 and 9.

Claims 5 and 10

Document 5 discloses that an antenna used for a transmitter serves as a circularly polarized wave, and an antenna used for a receiver is configured with a horizontally-polarized wave antenna and vertically-polarized wave antenna; therefore, no particular point can be found in adopting this constitution to a milliwave band radio communication method disclosed in cited document 1 to configure the inventions relating to claims 5 and 10.